

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-351

Harper's Chaparrel Estates  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Harper</u> (Last)	<u>Willard</u> (First)	<u>F.</u> (Middle)
<u>c/o Plains Engineering</u> <u>P. O. Box 727</u> (Street or P.O. Box)		
<u>Newcastle</u> (City)	<u>Wyoming</u> (County)	<u>82701</u> (State)

to construct, install, or modify a Sewer Collection & Water Distribution  
facility located in Section 6, T49N, R67W  
(Legal Description)

in the County of Crook, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. O'Neal  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

January 16, 1978

Date of Issuance

cc: Sheridan District Sanitarian

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

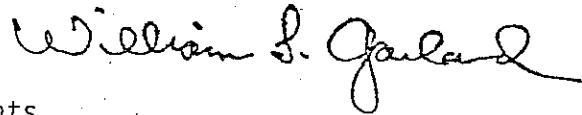
PROJECT: Chapparrel Estates

ARCHITECT OR ENGINEER: Plains Engineering  
P. O. Box 727, Newcastle, Wyoming 82701

WATER QUALITY DIVISION REFERENCE NUMBER: 77-351

REVIEWING ENGINEER: Tom Mueller, William L. Garland, P.E.

DATE OF REVIEW: January 6, 1978



ACTION: NOT AUTHORIZED FOR CONSTRUCTION. See comments.

COMMENTS: PVC water pipe with SDR of 26 is unacceptable. PVC water pipe must adhere to the requirements of AWWA C-900. All other items of the plans and specifications appear acceptable.

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-353

☐ Modified

Harney Reservoir, Rosebud Mine

(Name of Facility)

This permit hereby authorizes the applicant:

Rosebud Coal Sales Company

(Last) (First) (Middle)  
Attention: Jerry Ellis  
P.O. Box 780

(Street or P.O. Box)

Hanna Carbon Wyoming 82327

(City) (County) (State)

to construct, install, or modify a Runoff and Sedimentation Pond

facility located in Section 16, T23N, R81W

(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 3 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Gulari  
Administrator  
Water Quality Division

Robert E. Durkin  
Director  
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-352

Antelope Reservoir, Rosebud Mine

(Name of Facility)

This permit hereby authorizes the applicant:

Rosebud Coal Sales Company

(Last) (First) (Middle)  
Attention: Jerry Ellis  
P.O. Box 780

(Street or P.O. Box)

Hanna Carbon Wyoming 82327  
(City) (County) (State)

to construct, install, or modify a Runoff and Sedimentation Pond

facility located in Section 11, T22N, R81W

(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Guleand  
Administrator  
Water Quality Division

Robert E. Lurdin  
Director  
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-354

Lepus Reservoir, Rosebud Mine

(Name of Facility)

This permit hereby authorizes the applicant:

Rosebud Coal Sales Company

(Last) (First) (Middle)  
Attention: Jerry Ellis  
P.O. Box 780

(Street or P.O. Box)

Hanna Carbon Wyoming 82327  
(City) (County) (State)

to construct, install, or modify a Runoff and Sedimentation Pond

facility located in Section 31, T23N, R80W

(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 5 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Galand  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-355

Pine Draw Reservoir, Rosebud Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

Rosebud Coal Sales Company

(Last) (First) (Middle)  
Attention: Jerry Ellis  
P.O. Box 780

(Street or P.O. Box)

Hanna Carbon Wyoming 82327  
(City) (County) (State)

to construct, install, or modify a Runoff and Sedimentation Pond  
facility located in Section 21, T23N, R80W  
(Legal Description)

in the County of Carbon, in the State of  
Wyoming. This permit shall be effective for a period of 5 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Galar  
Administrator  
Water Quality Division

Robert E. Lunsford  
Director  
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-356

Rosebud Reservoir, Rosebud Mine  
(Name of Facility)

This permit hereby authorizes the applicant:

Rosebud Coal Sales Company

(Last) (First) (Middle)  
Attention: Jerry Ellis  
P.O. Box 780

(Street or P.O. Box)

Hanna Carbon Wyoming 82327  
(City) (County) (State)

to construct, install, or modify a Runoff and Sedimentation Pond  
facility located in Section 36, T23N, R81W  
(Legal Description)

in the County of Carbon, in the State of  
Wyoming. This permit shall be effective for a period of 3 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Garland  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-357

Energy Technical Center Sewer Extensions

(Name of Facility)

This permit hereby authorizes the applicant:

Energy Technical Center

(Last) (First) (Middle)  
c/o Moores - Eikenhorst  
3515 So. Tamarac, Suite 230

(Street or P.O. Box)

Denver Colorado 80237  
(City) (County) (State)

to construct, install, or modify a Sewer Extensions

facility located in Section 27 & 34, T50N, R72W

(Legal Description)

in the County of Campbell, in the State of

Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gable  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance  
cc: Nelson, Haley, Patterson and Quirk, Inc., 2021 Clubhouse Drive,  
Greeley, CO 80631



PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-358

McConaughy Small Waste Treatment Facility  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>McConaughy</u>	<u>Robert</u>	<u>E.</u>
(Last)	(First)	(Middle)
<u>P.O. Box 518</u>		
(Street or P.O. Box)		
<u>Wilson</u>	<u>Teton</u>	<u>Wyoming 83014</u>
(City)	(County)	(State)

to construct, install, or modify a Small Waste Treatment  
facility located in Section 14, T41N, R117W  
(Legal Description)

in the County of Teton, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Gaudin  
Administrator  
Water Quality Division

Robert E. Lardin  
Director  
Wyoming Dept. of Environmental Quality

September 14, 1977

Date of Issuance

cc: Peter M. Jorgensen, P.O. Box 1142, Jackson, WY 83001

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-359

4K Corp. Mobile Home Park

(Name of Facility)

This permit hereby authorizes the applicant:

Kenrath

Robert

F.

(Last)

(First)

(Middle)

General Delivery

(Street or P.O. Box)

Walcott

Wyoming 82335

(City)

(County)

(State)

to construct, install, or modify a Complete Water and Wastewater System

facility located in Section 35, T21N, R84W

(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Garland  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

September 15, 1977

cc: Rob Roy Logan, R & E Engineering, P.O. Box 494, Rawlins, WY 82301  
Phillip Hughes, Sanitarian



*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 15, 1977

Honorable Clifford Stickney  
Mayor, Town of Pavillion  
P.O. Box 15  
Pavillion, Wyoming 82523

Dear Mayor Stickney:

RE: Well #3 -77-3601

We appreciate your efforts to submit us "As Built" information of Well #3.

Our "Wyoming Water Quality Rules and Regulations, 1976, Chapter III" require all plans and specifications to have the signature or seal of an engineer registered in the State of Wyoming. In addition the following items need to be addressed:

- 1) Please submit capping details, and surface grouting details.
- 2) A vent is needed for the well casing. Lack of a vent tends to cause leaks around the casing seal.
- 3) A means of measuring water depth is highly desirable.
- 4) An air release-vacuum relief valve should be considered. The U-shaped discharge pipe tends to accumulate air at its high point.

We will review the resubmissions. You will be expected to finish construction of your well if necessary to meet our minimum design standards. However, this construction cannot proceed until authorization is received from this Department.

If any question comes up, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, reading "David W. Hill".

David W. Hill  
Environmental Engineer  
Water Quality Division

DWH/jo

Enclosure - Ten State Water Standards

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-360R

Town of Pavillion - Well #3

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Pavillion

(Last) (First) (Middle)  
c/o Orren J. Bower, P.E.  
801 So. 2nd Street

(Street or P.O. Box)

Lander Fremont Wyoming 82520  
(City) (County) (State)

to construct, install, or modify a Water Well

facility located in NW¼, SE¼ of Section 7, T3N, R2E

(Legal Description)

in the County of Fremont, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. O'Neal  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

November 3, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Orr Mobile Home Park, Sewer and Water, Paradise Valley

ARCHITECT OR ENGINEER: C. K. Wolz - Wolz and Associates, Box 322, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-361

REVIEWING ENGINEER: Jake Strohman; William L. Garland, P.E.

DATE OF REVIEW: 9-21-77

*William L. Garland*

ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS:

1. Need letter of acceptance from utility.
2. The cleanout on the 2.143% 6" line to MH#1 will have to be changed to a manhole.
3. Need specifications and details of cleanout by MH#3.
4. PVC sewer pipe shall meet specifications of ASTM D3034.
5. What is the water pressure furnished by the system at this location?

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-362

Town of Edgerton - Water Supply Improvements  
(Name of Facility)

This permit hereby authorizes the applicant:

Town of Edgerton  
(Last) (First) (Middle)  
c/o Sigma Engineering  
Box 4060  
(Street or P.O. Box)  
Casper Wyoming 82601  
(City) (County) (State)

to construct, install, or modify a Water Supply  
facility located in Town of Edgerton  
(Legal Description)

in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Quinn  
Administrator  
Water Quality Division

Robert E. Austin  
Director  
Wyoming Dept. of Environmental Quality

September 23, 1977

Date of Issuance

cc: Mayor Patterson, P.O. Box 407, Edgerton, WY 82635

REVIEW OF PLANS AND SPECIFICATIONS

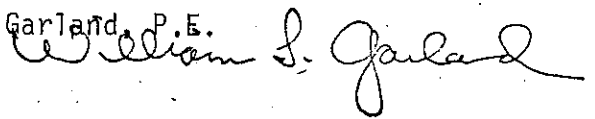
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Edgerton Well No. 6 and 4" connection line to existing transmission line

ARCHITECT OR ENGINEER: R. L. Streeter, II - Sigma Engineering, Box 4060,  
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-362

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.



DATE OF REVIEW: 9-21-77

ACTION: CONSTRUCTION AUTHORIZED (SEE COMMENTS)

COMMENTS:

1. Well casing shall terminate a minimum of one foot above well floor.
2. Screen end of drain pipe.
3. Furnish chemical quality of well water.
4. Furnish yield and drawdown data.
  - a. State method
  - b. Have a pump of at least 1.5 times anticipated flow.
  - c. Provide data below:
    1. Static water level
    2. Pumping rate
    3. Drawdown during test
    4. Recovery water levels
    5. Depth of pump setting.

cc: Mayor Patterson, P.O. Box 407, Edgerton, WY 82635

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-363R

Granger Sewage Treatment

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Granger

(Last)

(First)

(Middle)

P. O. Box 42 - Town Hall

(Street or P.O. Box)

Granger

(City)

Sweetwater

(County)

Wyoming 82934

(State)

to construct, install, or modify a Wastewater Lagoon

facility located in Section 29, T19N, R11W

(Legal Description)

in the County of Sweetwater, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Grand  
Administrator  
Water Quality Division

Robert E. Hendon  
Director  
Wyoming Dept. of Environmental Quality

February 15, 1978

Date of Issuance

cc: Nelson Engineering, ATTN: Frank Grimes, P. O. Box 1141, Jackson, Wyoming 83001



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Town of Granger, Sewage Treatment Lagoon, Granger, Wyoming

ARCHITECT OR ENGINEER: Nelson Engineering, P.O. Box 1141, Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 77-363

REVIEWING ENGINEER: David W. Hill; Don Armstrong, P.E., William L. Garland, P.E.

DATE OF REVIEW: September 23, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1) Please have owner or owners designated representative fill out and submit two copies "Application for Permit to Construct, Install....."
- 2) Submit two copies of all plans and specifications. One set shall be returned to you upon our authorization.
- 3) Submit complete design data (i.e. - population, average flows, peak flows, surface area, detention times, seepage, evaporation, etc.)
- 4) An operation and maintenance guide is recommended.

INFLUENT FLOW RECORDER

- 5) The influent flow recorder (if used) will not be allowed in a manhole. A small building or other arrangement must be provided.

LIFT STATION

- 6) Each lift pump must be able to handle peak flows.
- 7) You indicate that the pump motors shall use 230 V., 1 Ø power, yet on 4-43 it is indicated that 115V., 1 Ø service shall be provided. Please straighten this out for us.
- 8) The force main shall meet water line criteria. The PVC pipe shall meet AWWA C900-75.
- 9) Indicate where the overflow from the lift station discharges to.

- 10) The discharge piping shall be no smaller than four inches in size.
- 11) The vent of the wet well needs a screen on the end.
- 12) Use holding ratchets on the hatches for additional safety.
- 13) The discharge line gate valves must be operational from outside the wet well. Provide details.
- 14) In order to protect the grinder pumps from large objects, we highly recommend the use of a bar screen before the lift station.
- 15) Provide details of the automatic discharge connection.
- 16) The wet well floor shall have a minimum slope of 1 to 1 to the hopper bottom containing the submersible grinder pumps.
- 17) Adequate provisions must be made for power outages. Please discuss.

#### LAGOONS

- 18) Splash blocks are needed for the influent lines to Cells #2 and #3.
- 19) The transfer structure must not draw wastewater (and sludge) off the bottom of the cells (i.e. - cell #2 effluent). It is advisable to have multiple drawoff points from varying depths for all cells in order to draw off the best effluent.
- 20) The well bottoms shall be as level as possible. Provide a specification covering this.
- 21) Indicate the depth to which the cells bottom soil will be scarified and compacted. How much seepage is expected.
- 22) The lagoon embankments shall be seeded from the outside toe of the dike to approximately one foot above the high water line. Supply details.
- 23) Will riprap be required to minimize dike erosion?
- 24) The invert of the outfall pipes from the transfer structures at cells #1 and #2 should be at the bottom elevation of the structure in order to minimize solids deposition.
- 25) Please explain the rationale for using C.M.P. pipe for the transfer structures, transfer piping and chlorine contact chamber. The high sulfates and chlorine would tend to corrode this pipe.

CHLORINE CONTACT CHAMBER

- 26) The contact chamber must provide at least 15 minutes detention time. Will this be provided?
- 27) A 36 inch chlorination well is too small for a maintenance man to work in. No smaller than a 42 inch diameter structure is needed.
- 28) Baffles should be provided to stop short circuiting.
- 29) Floating solids must be kept out of the discharge. A baffle or some alternative must be provided at the outfall from the contact chamber.
- 30) Submit chlorine diffuser details.
- 31) Submit heating details for the chlorination building.
- 32) The use of a single hypochlorite solution tank is not recommended. Calcium hypochlorite reacts with the hardness in the water to precipitate calcium carbonate. This easily clogs hypochlorinators, suction lines, etc. The mixed water-calcium hypochlorite solution should be allowed to settle 12-24 hrs. The clear supernatant can then be drawn off into another tank for use with the hypochlorinator.
- 33) How will the mixing water and calcium hypochlorite be mixed? A mechanical mixer may be needed.
- 34) How and where will the mixing water be obtained?

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-364R

Sage Bluffs Filing No. 1  
(Name of Facility)

This permit hereby authorizes the applicant:

Pulte Home Corporation  
(Last) (First) (Middle)  
15335 East Florida Avenue  
(Street or P.O. Box)  
Denver Colorado 80200  
(City) (County) (State)

to construct, install, or modify a Water Distribution & Waste Collection & Storm  
Collection  
facility located in Section 33, T50N, R72W  
(Legal Description)

in the County of Campbell, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Gale  
Administrator  
Water Quality Division

Robert E. Auer  
Director  
Wyoming Dept. of Environmental Quality

December 15, 1977

Date of Issuance

cc: Meurer, Serafini, Meurer, Inc., P.O. Box 219, Rawlins, WY 82301



PULTE HOME CORPORATION  
2275 East Arapahoe Road, Suite 316  
Littleton, Colorado 80122  
(303) 794-4560



January 13, 1978

77-364

State of Wyoming  
Department of Environmental Quality  
Water Quality Division  
Cheyenne, Wyoming 82002

Gentlemen:


We ask that you note the address correction on  
our Permit Number 77-364R.

The stated address of 15335 East Florida Avenue,  
Denver, Colorado, 80200, should be corrected  
to be 2275 East Arapahoe Road, Suite 316, Littleton,  
Colorado, 80122.

We ask that any further correspondence be directed  
to us at this address.

Thank you.

Very truly yours,

  
Robert B. Brisnehan,  
Vice-President

RBB/cf

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sage Bluffs, Section 33, T50N, R72W, Gillette, WY, Campbell Co.

ARCHITECT OR ENGINEER: Meurer, Serafini, Meurer, Inc., P.O. Box 219,  
Rawlins, Wyoming 82801

WATER QUALITY DIVISION REFERENCE NUMBER: 77-364

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E.

*William L. Garland*

DATE OF REVIEW: 11-1-77

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Deadend mains shall have fire hydrant or flushing hydrant.
2. End of sewerlines must have manholes or cleanouts. Cleanouts can only be used if the line is 150 feet or less.
3. PVC water pipe must meet AWWA C-900 specifications.
4. The specifications in the plans are not consistent with the specifications provided under separate cover.
5. The water, sewer and storm sewer crossings are not consistent with Chapter III, Section 15 of the Water Quality Rules and Regulations.
6. Sterilization specifications for waterlines should conform to AWWA C601-68.
7. Infiltration and exfiltration maximums should be 200 gal./inch, dia./mile/day.
8. Wye branches should be used instead of tees.
9. Provide typical drawings of the waterline depressions.
10. ASTM C-200 specification has been withdrawn.
11. Bedding specifications are not clear. There should be special bedding procedures for A.C. pipe, PVC, iron, rock, etc. What is class "B" bedding?

Sage Bluffs, Section 33, T50N, R72W, Gillette, WY, Campbell Co.

77-364

12. The specifications and drawings differ in the type of sewer pipe that will be used in the subdivision. Please clarify.
13. Provide a typical drawing of the installation of pipe through casings. Any change from the approved type of installation would require a permit to modify.
14. Due to the number of comments this cannot be considered a final review.

REP/jo

cc: Pulte Home Corporation, 15335 E. Florida Avenue, Denver, CO 80200  
City of Gillette, Department of Planning and Development, P.O. Box  
540, Gillette, WY 82716



*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 11, 1977

Mr. J. W. Wilson  
Town of Big Piney  
P.O. Box 70  
Big Piney, Wyoming 83113

Dear Mr. Wilson:

RE: Water Well #4 -77-365

We appreciate your efforts to submit "AS BUILT" plans to us.

The "AS BUILT" plans have been reviewed and the following comments have been generated:

- 1) Please submit capping details and surface grouting details (if any).
- 2) Is a vent provided for the casing? Lack of a vent tends to cause leaks around the casing seal.
- 3) A means for measuring water depth is desirable.
- 4) How high is the casing top above the wellhouse floor?
- 5) Detailed specifications are needed for the flow meter, flow control valve, check valve, pressure relief valve, ductile iron pipe, etc.
- 6) Where does the discharge from the pressure relief valve flow to?
- 7) A sump is needed to collect seepage in the wellhouse. A sump pump is needed. Also supply slope details of the wellhouse floor.
- 8) The manhole to the wellhouse should be framed four inches and preferably six inches above the surface of the roof. This manhole should be fitted with a solid watertight cover which overlaps the framed opening and extends down around the frame at least two inches. It should be locked and hinged.

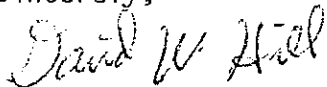


Mr. J. W. Wilson  
October 11, 1977  
Page 2

We will review the resubmissions.. You will be expected to reconstruct your well house, if necessary, to meet our minimum design standards. However, no reconstruction can take place until authorization is received from this Department.

If any question comes up, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "David W. Hill".

David W. Hill  
Environmental Engineer  
Water Quality Division

DWH/jo

cc: Peter M. Jorgensen, P.O. Box 1142, Jackson, WY 83001

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

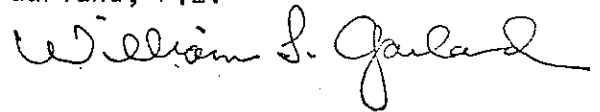
PROJECT: Dia-Log Septic System, Lot 12, Westgate Park Subdivision, Sec. 28,  
T34N, R80W

ARCHITECT OR ENGINEER: E. C. Lenhart - 632 South David, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-366

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: 9-22-77



ACTION: CONSTRUCTION IS NOT AUTHORIZED

- COMMENTS:
1. 10 ft. horizontal separation required between water & sewer lines.
  2. Need cleanout on bend in sewer line preceeding septic tanks and coming out of building.
  3. Indicate how estimated flows were derived (i.e. - number of employees, customers, flows per capita and washes, etc.)

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-365R

Town of Big Piney - Well #4  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Town of Big Piney</u>		
(Last)	(First)	(Middle)
<u>c/o James W. Wilgond</u>		
<u>P.O. Box 70</u>		
(Street or P.O. Box)		
<u>Big Piney</u>	<u>Sublette</u>	<u>Wyoming 83113</u>
(City)	(County)	(State)

to construct, install, or modify a Well #4  
facility located in the Town of Big Piney  
(Legal Description)

in the County of Sublette, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Garland  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

December 19, 1977

Date of Issuance

cc: Peter M. Jorgensen, P.O. Box 1142, Jackson, Wyoming 83001

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Town of Big Piney - Well #4, Big Piney, Wyoming

ARCHITECT OR ENGINEER: Peter M. Jorgensen, Submitted by: James W. Wilson,  
Water Commissioner, Town of Big Piney, P.O. Box 70,  
Big Piney, Wyoming 83113  
WATER QUALITY DIVISION REFERENCE NUMBER: 77-365R

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: December 15, 1977

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Well Property

A clear minimum distance of 50 feet radius around the well should be designated for the well above. No sewer lines or other sources of contamination shall be located within this 50 feet property.

FRH/jo

cc: Peter M. Jorgensen, P.O. Box 1142, Jackson, Wyoming 83001

PERMIT TO CONSTRUCT

☒ /

New

☐ /

Renewal

☐ /

Modified

Permit No. 77-366R

Dia-Log Septic System (Westgate Park Sub.)

(Name of Facility)

This permit hereby authorizes the applicant:

Stephen

(Last)

Sasser

(First)

F.

(Middle)

516 N. Lennox

(Street or P.O. Box)

Casper

(City)

Natrona

(County)

Wyoming 82601

(State)

to construct, install, or modify a Septic System

facility located in Section 28, T34N, R80W

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

cc: Worthington, Lenhart, and Carpenter, Inc., 632 South David, Casper, WY 82601

Authorized by:

William J. Gulea

Administrator  
Water Quality Division

Robert E. Scindian

Director  
Wyoming Dept. of Environmental Quality

November 3, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-367

Girl Scouts of the U.S.A., Childs Spring No. 2

(Name of Facility)

This permit hereby authorizes the applicant:

Girl Scouts of the U.S.A.

(Last) (First) (Middle)  
c/o John Donnell and Associates  
P.O. Box 13

(Street or P.O. Box)

Worland Washakie Wyoming 82401  
(City) (County) (State)

to construct, install, or modify a Water

facility located in Tensleep, WY

(Legal Description)

in the County of Washakie, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

NOTE: ENSURE AN AIR GAP OR INSTALL A REDUCED PRESSURE BACKFLOW PREVENTOR  
AT THE STOCK WATERING TANK.

Authorized by:

William J. Ojala  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

September 23, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-368

Hyattville Teacherage Wastewater Disposal System  
(Name of Facility)

This permit hereby authorizes the applicant:

School District No. 4

(Last) (First) (Middle)  
c/o Tudor Engineering Company  
450 South Federal Blvd.

(Street or P.O. Box)

Riverton

(City)

Wyoming 82501

(State)

to construct, install, or modify a Wastewater Disposal

facility located in Hyattville, WY

(Legal Description)

in the County of Big Horn, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. Jala  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

September 23, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Dickinson Trailer Park, Wastewater Facility, Section 23, T1N, R4E,  
Fremont County, Wyoming

ARCHITECT OR ENGINEER: Jerald B. Crews, P.E. - Tudor Engineering Company,  
450 South Federal Blvd., Riverton,  
WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 77-369

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E.

DATE OF REVIEW: October 17, 1977

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1) In order to adequately protect the water supply, some type of backflow preventor is needed in the potable water line.
- 2) An operation and maintenance guide is needed.
- 3) Sludge handling and disposal must be addressed.

AERATION BASIN

- 4) Details are needed of the diffusers.
- 5) The PVC inlet and outlet baffles should be extended to near the bottom of the aeration tanks to guard against short circuiting.
- 6) Inlet and outlet "Tees" must be cast iron or schedule 40 PVC.
- 7) An easy opening hatch is preferred on the aeration basin so that the operator can observe the mixed liquor.

CLARIFIER

- 8) Please submit details of tube settlers. "Ten State Standards" requires a loading of 300 gpsf per day. You are using 800 gpsf per day. Will the tube settlers handle this loading rate satisfactory and produce a high quality effluent.
- 9) The literature suggests that air cleaning, may be required for keeping the tube settlers clean and functioning. Please discuss and elaborate.
- 10) An outlet baffle is required to keep scum out of the effluent.



Dickinson Trailer Park, Wastewater Facility, Section 23, T1N, R4E,  
Fremont County, Wyoming

77-369

- 11) Provide details of the top of the air lift riser. Provisions must be made for riser rodding and sludge wasting to the sludge holding tank.

#### CHLORINATOR

- 12) Submit chlorinator details.
- 13) We will reluctantly authorize the use of a tablet chlorinator due to a lack of sufficient historical operating information. The effluent should be monitored closely to determine if satisfactory coliform and chlorine residual numbers are being met. Non-compliance with the discharge permit could result in stiff penalties.

#### CHLORINE CONTACT CHAMBER

- 14) The influent and effluent PVC baffles should be extended to near the basin floor to help prevent short circuiting.
- 15) Influent and effluent "Tees" must be cast iron or schedule 40 PVC.

#### BLOWER BUILDING

- 16) A gate or butterfly valve must be installed in each blower discharge.
- 17) Discuss heating requirements.
- 18) Have adequate provisions been made to reduce the noise as much as possible?

#### SLUDGE HOLDING TANK

- 19) Our regulations indicate the holding tank will hold only 2-3 weeks waste sludge. A larger holding tank is preferred.

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☒ Modified

Permit No. 77-369R

Dickinson Trailer Park - Wastewater Facility

(Name of Facility)

This permit hereby authorizes the applicant:

J. R. Contractor, Inc.

(Last)

(First)

(Middle)

Route 1, Box 555

(Street or P.O. Box)

Riverton

Fremont

Wyoming 82501

(City)

(County)

(State)

to construct, install, or modify a Wastewater Facility

facility located in Section 23, T1N, R4E

(Legal Description)

in the County of Fremont, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Galand  
Administrator  
Water Quality Division

Robert E. Andin  
Director  
Wyoming Dept. of Environmental Quality

November 17, 1977

Date of Issuance

cc: Tudor Engineering Company, 450 South Federal Blvd., Riverton, WY 82501

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-370

Western Hills, 10th Filing

(Name of Facility)

This permit hereby authorizes the applicant:

Northwest Associates

(Last)

(First)

(Middle)

1124 Dumn Avenue

(Street or P.O. Box)

Cheyenne

Laramie

Wyoming 82001

(City)

(County)

(State)

to construct, install, or modify a Water Distribution and Sewage Collection  
facility located in Section 13, T14N, R67W

(Legal Description)

in the County of Laramie, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Ireland  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

October 11, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-371

☐ Modified

Area 3 Settling Ponds - Lucky Mc Uranium Corporation

(Name of Facility)

This permit hereby authorizes the applicant:

Russell

Jack

(Last)

(First)

(Middle)

Shirley Basin Mine

(Street or P.O. Box)

Shirley Basin

Carbon

Wyoming 82601

(City)

(County)

(State)

to construct, install, or modify a 2 Settling Ponds

facility located in Section 2, T27N, R78W

(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 1 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Quinn

Administrator

Water Quality Division

Robert E. Durbin

Director

Wyoming Dept. of Environmental Quality

September 22, 1977

Date of Issuance



LUCKY Mc URANIUM CORPORATION

SHIRLEY BASIN MINE

SHIRLEY BASIN, WY 82615

TELEPHONE (307) 356-4312

September 16, 1977

Frank Harmon  
DEQ  
Water Quality Division  
Cheyenne, Wyoming 82001

Dear Sir:

Here are the two copies of our maps for the settling ponds. These are an addition to the one copy we left with you in Cheyenne, on September 15, 1977. Thank you.

Sincerely,

Stratford Murdock

SM/ln

Map enclosures

*Permit already  
issued (77-371)  
destroyed additional plans*

*JFm*

*10/3/77*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Grandview Gardens Trailer Park, Lot 70F, Section 2, T52N, R102W

ARCHITECT OR ENGINEER: Arwin D. Priest, P.E. - E & M Designs, 3110 S. Wadsworth  
Blvd., Suite 308, Denver, CO 80227

WATER QUALITY DIVISION REFERENCE NUMBER: 77-372

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: 9-23-77

*William L. Garland*

ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS:

1. Need letter of acceptance from the City.
2. Need material and installation specifications (septic tank, pipes, water riser, etc.)
3. Need cap for sewer risers.
4. Need inlet and outlet locations on septic tank. Recommend a baffle located 2/3 length from inlet. Need removable covers over inlet and outlet.
5. Water line has to be 2 inch minimum from City main, through trailer units. A blowoff or flushing valve is required at the end of the line (send detail and specifications).
6. A sewer manhole is required at the end of the sewer line (not under a trailer space). Send details and specifications. Send a profile of collection and disposal system. Send alignment specifications.
7. Tie ends of leach lines together.
8. Put a concrete block around sewer riser for protection.



9. State depth of water lines, disinfection procedures and pressure tests. What pressure is the City furnishing at this location.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Grandview Gardens Trailer Park, Lot 70F, Section 2, T52N, R102W,  
Park County, Wyoming

ARCHITECT OR ENGINEER: Arwin D. Priest, P.E. - E & M Designs, 3110 South  
Wadsworth Blvd., Suite 308, Denver, CO 80227

WATER QUALITY DIVISION REFERENCE NUMBER: 77-372R

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E.

DATE OF REVIEW: November 16, 1977

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

WATER SYSTEM

- 1) We need detailed material and installation plans and/or specifications for all waterlines, backfill specifications, flushing valves, valves, etc.)
- 2) A detail drawing of a typical water riser is needed. The water riser shall terminate at least four inches above ground level and be surrounded by a concrete apron or equal.
- 3) The water riser should be located a minimum of five feet horizontally from sewer risers.
- 4) We still need pressure, leakage and disinfection specifications.

SEWER LINES

- 5) The manhole is required on the South end of the sewerline. It shall not be located beneath a trailer.
- 6) We need detailed specifications of the sewer pipe material, backfill specifications, infiltration-exfiltration specifications, leakage specifications, alignment specifications, deflection specifications, etc.)
- 7) Indicate size of leach field gravel.
- 8) Top of gravel shall be covered with untreated building paper or equivalent (straw, hay, etc.).
- 9) Indicate leach line material with specifications.

Grandview Gardens Trailer Park, Lot 70F, Section 2, T52N, R102W, Park Co., WY  
77-372R

GENERAL

- 10) Please have owner or owners designated representative fillout and submit two copies of "Application for Permit to Construct, Install....."
- 11) Due to the number of comments, this cannot be considered a complete review.

DWH/jo  
Enclosure



PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-374

Tom and Becky Schell Property

(Name of Facility)

This permit hereby authorizes the applicant:

Schell	Tom and Becky	
(Last)	(First)	(Middle)
P.O. Box 294		
(Street or P.O. Box)		
Jackson	Teton	Wyoming 83001
(City)	(County)	(State)

to construct, install, or modify a Commercial Wastewater Septic Tank - Elevated Leach Field  
facility located in Section 13, T41N, R117W  
(Legal Description)

in the County of Teton, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Gaudin  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

October 11, 1977

cc: Peter M. Jorgensen, P.E., P.O. Box 1142, Jackson, WY 83001  
Dan Cowee, Teton County Planner, Teton County Courthouse, Jackson, WY 83001

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-376

☐ Modified

Day Addition

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Medicine Bow

(Last)

(First)

(Middle)

P.O. Box 156

(Street or P.O. Box)

Medicine Bow

Carbon

Wyoming 82329

(City)

(County)

(State)

to construct, install, or modify a Water Distribution Line

facility located in Section 5, T22N, R78W

(Legal Description)

in the County of Carbon, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

cc: Banner and Associates, Inc., P.O. Box 550, Laramie, WY 82070

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-377

RDM Trucking Wastewater Disposal  
(Name of Facility)

This permit hereby authorizes the applicant:

Reker	Steven	Alan
(Last)	(First)	(Middle)
1971 Yellowstone		
(Street or P.O. Box)		
Casper	Natrona	Wyoming 82601
(City)	(County)	(State)

to construct, install, or modify a Wastewater Disposal  
facility located in Section 22, T34N, R79W, Lot 4B Interstate Park Sub.  
(Legal Description)

in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

cc: Harry O. Patterson, P.E., 437 S. Spruce, Casper, WY 82601

Authorized by:

William J. Gorman  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

October 11, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Commercial Addition, Water Extension, City of Worland

ARCHITECT OR ENGINEER: John W. Donnell, P.E. - P.O. Box 13, Worland, WY 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 77-378

REVIEWING ENGINEER: Jake Strohman; William L. Garland, P.E.

DATE OF REVIEW: 9-28-77

ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS:

1. A fire hydrant, flushing hydrant or blowoff valve is required at the end of the water system. Any alternative other than a fire hydrant requires details and specifications.
2. The extension to the City will have to be a minimum of six (6) inch diameter pipe throughout the entire length. No 4 inch line.

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-379

John Vigil Trailer Units

(Name of Facility)

This permit hereby authorizes the applicant:

Vigil	John	
(Last)	(First)	(Middle)
c/o John W. Donnell		
P.O. Box 13		
(Street or P.O. Box)		
Worland	Washakie	Wyoming 82401
(City)	(County)	(State)

to construct, install, or modify a Sewer and Water  
facility located in Tract 12-25  
(Legal Description)

in the County of Washakie, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Ogden  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

October 11, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Century Geophysical Corporation, Section 24, T33N, R80W,  
Natrona County

ARCHITECT OR ENGINEER: Edwin S. Rate, Jr., P.E. - Western Construction, Inc.,  
P.O. Box 930, Casper, WY 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 77-380

REVIEWING ENGINEER: Jake Strohman, William L. Garland, P.E.

DATE OF REVIEW: October 27, 1977

ACTION: CONSTRUCTION IS NOT AUTHORIZED

COMMENTS: What is the use of the sump and estimated flows?

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-380R

☐ Modified

Century Geophysical Corporation

(Name of Facility)

This permit hereby authorizes the applicant:

Western Construction, Inc.

(Last)

(First)

(Middle)

P.O. Box 930

(Street or P.O. Box)

Casper

Natrona

Wyoming 82602

(City)

(County)

(State)

Waste Treatment

to construct, install, or modify a

facility located in Section 24, T33N, R80W

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Pauls

Administrator

Water Quality Division

Robert E. Sundin

Director

Wyoming Dept. of Environmental Quality

October 25, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-381

Keffeler Electro Osmosis System  
(Name of Facility)

This permit hereby authorizes the applicant:

Keffeler	Bruce	M.
(Last)	(First)	(Middle)
114 N. McKinley		
(Street or P.O. Box)		
Casper	Natrona	Wyoming 82601
(City)	(County)	(State)

to construct, install, or modify a Waste Treatment

facility located in Section 8, T32N, R80W

(Legal Description)

in the County of Natrona, in the State of

Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

cc: Western Construction Company, P.O. Box 930, Casper, WY 82602

Authorized by:

William J. Galsord  
Administrator  
Water Quality Division

Robert E. Lunden  
Director  
Wyoming Dept. of Environmental Quality

October 11, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.



PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-382

Roberts Drilling - Trailer Units

(Name of Facility)

This permit hereby authorizes the applicant:

Roberts

Sam

(Last)

(First)

(Middle)

4061 Valley Road

(Street or P.O. Box)

Casper

Natrona

Wyoming 82601

(City)

(County)

(State)

to construct, install, or modify a Waste Treatment

facility located in Section 12, T33N, R80W

(Legal Description)

in the County of Natrona

, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

cc: Harry O. Patterson, P.E., 437 S. Spruce, Casper, WY 82601

Authorized by:

William L. Garland  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

October 11, 1977

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank Permit from Natrona County Health Department.

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-383

Sun Valley Distribution Main

(Name of Facility)

This permit hereby authorizes the applicant:

Board of Public Utilities

(Last) (First) (Middle)  
c/o Banner and Associates  
P.O. Box 550

(Street or P.O. Box)

Laramie Wyoming 82070  
(City) (County) (State)

to construct, install, or modify a Water Distribution Main  
facility located in Section 34 & 35, T14N and Sec. 3 & 4, T13N, R66W  
(Legal Description)

in the County of Laramie, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Garland  
Administrator  
Water Quality Division

Robert E. Hendin  
Director  
Wyoming Dept. of Environmental Quality

October 7, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: City of Sheridan - Water System Improvements I

ARCHITECT OR ENGINEER: Howard, Needles, Tammen and Bergendoff, Inc., Attention:  
Clyde H. Dolan, P.O. Box 3478, Intermountain Bldg.,  
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-384M

REVIEWING ENGINEER: Dan H. Kim, William L. Garland, P.E.

DATE OF REVIEW: October 24, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) Enclosed is an application form, which should be completed and returned to our office.
- 2) Is the installation of 4 M. G. water storage tank included in this project? If not, when will it be constructed? A permit from our office is required before the water tank is installed.
- 3) The open end of an air relief pipe should extend at least 1 foot above grade and be provided with a screen.
- 4) Crossing under ditch on sheet 7 does not meet the provisions of 10 State Standards. Please justify your design.
- 5) Water valves should be located at not more than 800 foot intervals on distribution lines. Please comment on the anticipated use of the 24" - 20" line.
- 6) The blowoff drain pipe should terminate at least 2 feet above the ground surface. A distance should be provided from natural ground level or highest flood level to the pipe end.
- 7) This cannot be considered a final review.

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-384MR

City of Sheridan - Water System Improvements I  
(Name of Facility)

This permit hereby authorizes the applicant:

Marshall	M.	Dean
(Last)	(First)	(Middle)
City Hall		
(Street or P.O. Box)		
Sheridan	Sheridan	Wyoming 82801
(City)	(County)	(State)

to construct, install, or modify a Water Transmission Line (24" & 20")  
facility located in Section 28 & 29, T56N, R84W  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. O'Leary  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

November 28, 1977

Date of Issuance

cc: Clyde H. Dolan, HNTB, Inc., P.O. Box 3478, Intermountain Bldg.,  
Casper, WY 82602

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: City of Sheridan - Water System Improvements II

ARCHITECT OR ENGINEER: Clyde Dolan - Howard, Needles, Tammen and Bergendoff, Inc.,  
P.O. Box 3478, Intermountain Bldg., Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-385M

REVIEWING ENGINEER: Dan H. Kim, William L. Garland, P.E.

DATE OF REVIEW: October 24, 1977

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) Enclosed is an application for a permit to construct, which should be completed and returned to our office.
- 2) Water valves should be located at not more than 800 foot intervals on distribution lines. The 24 inch line appears to be a transmission line and as such would not require extensive valving. Please comment on the anticipated use of the 24" - 20" line.
- 3) Typical drawings of blowoff, fire hydrant and air relief valve should be included in the plans.
- 4) This cannot be considered a final review.

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-385MR

City of Sheridan - Water System Improvements II  
(Name of Facility)

This permit hereby authorizes the applicant:

Marshall M. Dean  
(Last) (First) (Middle)  
c/o Howard, Needles, Tammen and Bergendoff, Inc.  
P.O. Box 3478 - Intermountain Bldg.  
(Street or P.O. Box)  
Casper Wyoming 82601  
(City) (County) (State)

to construct, install, or modify a Water Transmission Line (20")  
facility located in Section 26 & 27, T56N, R84W  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Garland  
Administrator  
Water Quality Division

Robert E. Lardin  
Director  
Wyoming Dept. of Environmental Quality

November 18, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-386M

☐ Modified

Lamb Mobile Home Park

(Name of Facility)

This permit hereby authorizes the applicant:

City of Lander

(Last) C. E. Spurlock, Jr. (First) City Engineer (Middle)  
183 South Fourth Street

(Street or P.O. Box)

Lander

Fremont

Wyoming 82520

(City)

(County)

(State)

to construct, install, or modify a Water and Sewer Service Lines

facility located in the City of Lander

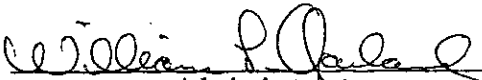
(Legal Description)

in the County of Fremont, in the State of

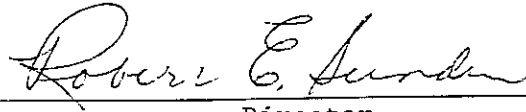
Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:



Administrator  
Water Quality Division



Director  
Wyoming Dept. of Environmental Quality

October 26, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: City of Sheridan - Water System Improvement III

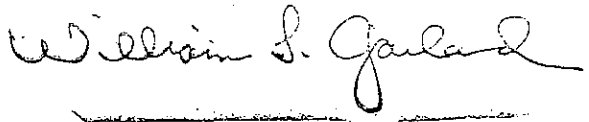
ARCHITECT OR ENGINEER: Clyde H. Dolan - Howard, Needles, Tammen and Bergendoff,  
P.O. Box 3478, Intermountain Bldg., Casper,  
WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 77-387M

REVIEWING ENGINEER: Dan H. Kim, William L. Garland, P.E.

DATE OF REVIEW: October 24, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION



COMMENTS:

- 1) Enclosed is an application for a permit to construct, which should be completed and returned to our office.
- 2) Underwater crossing does not meet 10 State Standards. A valve closest to the supply source shall be in a manhole and permanent taps are required as well as valves being at both sides of water crossings. Please justify your design.
- 3) What lubrication will be used to push or pull the pipe through the sleeve in highway bore crossing?
- 4) What will be done with the drainage collected at sump pit in pressure reducing valve vault?
- 5) Water valves should be located at not more than 800 foot intervals on distribution lines. The 24 inch line appears to be a transmission line and as such would not require extensive valving. Please comment on the anticipated use of the 24" - 20" line.
- 6) This cannot be considered a final review.



PERMIT TO CONSTRUCT

☒ New

☐ Renewal

☐ Modified

Permit No. 77-387MR

City of Sheridan - Water System Improvements III

(Name of Facility)

This permit hereby authorizes the applicant:

Marshall

M.

Dean

(Last)

(First)

(Middle)

c/o Howard, Needles, Tammen and Bergendoff  
P.O. Box 3478 - Intermountain Bldg.

(Street or P.O. Box)

Casper

Wyoming 82601

(City)

(County)

(State)

to construct, install, or modify a Water System Improvements

facility located in the City of Sheridan

(Legal Description)

in the County of Sheridan, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. O'Quinn  
Administrator  
Water Quality Division

Robert E. Lunden  
Director  
Wyoming Dept. of Environmental Quality

November 18, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-388MRR

Town of Baggs Sewage Treatment Facility  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Town of Baggs</u> (Last)	<u></u> (First)	<u></u> (Middle)
<u>P. O. Box 121</u> (Street or P.O. Box)		
<u>Baggs</u> (City)	<u>Carbon</u> (County)	<u>Wyoming 82321</u> (State)

to construct, install, or modify a Sewage Treatment Facility (Lagoons)  
facility located in Section 5, T21N, R91W  
(Legal Description)

in the County of Carbon, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Gale  
Administrator  
Water Quality Division

Robert E. Sardin  
Director  
Wyoming Dept. of Environmental Quality

May 23, 1978

Date of Issuance

cc: Barbara Scott, 523 West 29th Street, Cheyenne, Wyoming 82001

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Hathaway Office Building  
Cheyenne, Wyoming 82002

PROJECT: Town of Baggs - Sewage Lagoon  
Carbon County

ARCHITECT OR ENGINEER: Barbara Scott, P.E.  
523 West 27th Street  
Cheyenne, Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 77-388MR

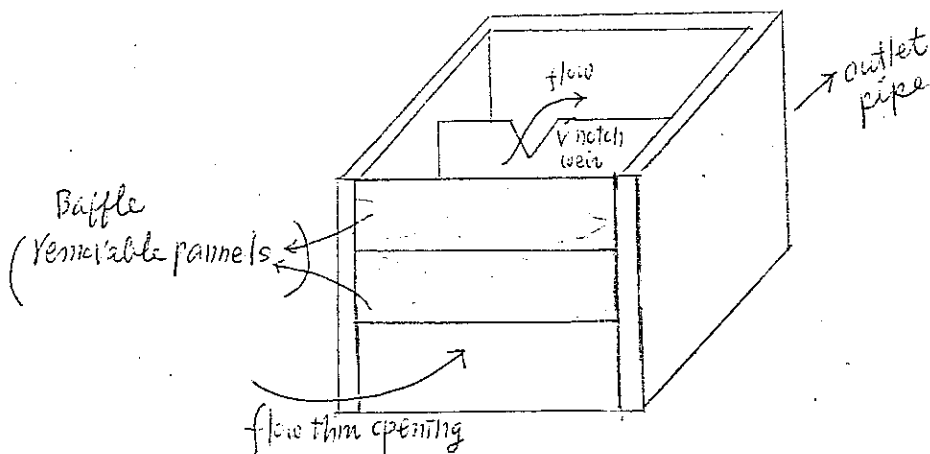
REVIEWING ENGINEER: Dan H. Kim - Don Armstrong, P.E.

DATE OF REVIEW: February 23, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1). What is the design population in 1990? Your design note indicates that 1990 design flow is estimated 87 gpm, which is equivalent to 1253 people, assuming 100 gpd per capita as average flows. However, the total area of the primary cell is 10.06 acres, which is capable of handling sewage flow for only 1006 people based on the design criteria of 10 State Standards. Please clarify.
- 2). The V notch weir should be preceded by a baffle so that the baffle can prevent scum or floating material from accumulating around the weir area and minimize the effect of direct wind action on the weir. The design of outlet box shown below is strongly recommended.



PROJECT: Town of Baggs - Sewage Lagoon  
Carbon County

WATER QUALITY REFERENCE NUMBER: 77-388MR (CONT)

- 3). Plan of operation should be submitted.
- 4). The saucer shaped depression at the end of influent line should be protected by riprap or concrete from the erosion. Significant erosion is expected because the inlet line does not discharge horizontally into the depression.
- 5). Are there sufficient numbers of warning signs provided along the fence around the pond? There is only one sign board shown in the drawings at the entrance of the lagoon.
- 7). This can not be considered a final review.

A & B

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Town of Baggs - Sewage Treatment Facilities, Carbon County

ARCHITECT OR ENGINEER: Barbara Scott, P.E. - 523 W. 27th Street, Cheyenne,  
WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 77-388M

REVIEWING ENGINEER: Dan H. Kim, William L. Garland, P.E.

DATE OF REVIEW: October 30, 1977

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) Soil characteristic testing data, type and thickness of liner, specifications for the installation of the liners should be submitted.
- 2) Embankment slopes should not be steeper than 3 to 1.
- 3) Influent lines should be relocated to minimize short-circuiting within the 1st cell.
- 4) Surcharging of the sewer upstream from the lagoon is not permitted. Influent lines should be constructed according to 10 State Standards.
- 5) Details of interconnecting lines which are crossing the creek should be provided.
- 6) Overflow structure should be constructed per 10 State Standards. Detail drawings should be provided.
- 7) Provisions for flow measurement shall be constructed on the outlet.
- 8) The end of the influent line in Cell #1 should rest on a suitable concrete apron with a minimum size of 2 feet square.
- 9) Details of baffles to be installed in Cell #3 should be provided.
- 10) This cannot be considered a final review.

THE STATE



OF WYOMING

File  
77-389

7-9-81

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 8, 1981

CERTIFIED

Ron George  
Bingo Truck Stop  
Hillsdale, WY 82060

RE: Construction without a permit

Dear Mr. George:

On June 26, 1981, Gary Hickman of the Laramie County Health Department and I met with you concerning problems with the Bingo Truck Stop wastewater disposal system. In evaluating the site, it was noted that seven mobile homes were installed rather than the five that were approved in the Permit to Construct, No. 77-389. As discussed, the wastewater system was not designed for this additional loading which could be causing problems. Also, the semitrailers running over and parking on the drainfield pipe will result in eventual failure.

It is recommended that the drainfield be marked to eliminate any vehicle travel until the system can be evaluated for any damage and for steps to be taken to improve the system.

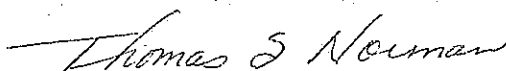
The installation of the two additional mobile homes onto the existing drainfield is a violation of the Wyoming Environmental Quality Act, Section 35-11-301(a)(iii), which states "No person, except when authorized by a permit issued pursuant to the provisions of this act, shall construct, install, modify or operate any sewerage system, treatment works, disposal system or other facility, capable of causing or contributing to pollution." Any person who violates any provision of the Environmental Quality Act is liable to a penalty of \$10,000 for each day of violation.

Ron George  
July 8, 1981  
Page 2

The Water Quality Division requests that you submit a schedule of items that will bring the system into compliance. This schedule must be received within thirty (30) days of receipt of this letter or else the matter will be turned over to the Attorney General's Office with a request that a complaint be filed in District Court. All plans and specifications must be signed or sealed by a Wyoming Registered Engineer.

If you have any questions, please feel free to contact this office.

Sincerely,

A handwritten signature in cursive script that reads "Thomas S. Norman".

Thomas S. Norman  
Water Quality Engineer

TSN/pjb

cc: Gary Hickman

PERMIT TO CONSTRUCT

☒ New

☐ Renewal

Permit No. 77-389

☐ Modified

Bingo Truck Shop

(Name of Facility)

This permit hereby authorizes the applicant:

Telum, Inc.

(Last) (First) (Middle)  
c/o Tom Kraft  
P.O. Box 10448

(Street or P.O. Box)

Cheyenne Laramie Wyoming 82001  
(City) (County) (State)

to construct, install, or modify a Commercial Septic Sewage

facility located in Section 18, T14N, R62W

(Legal Description)

in the County of Laramie, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland  
Administrator  
Water Quality Division

Robert E. Lunden  
Director  
Wyoming Dept. of Environmental Quality

October 7, 1977

Date of Issuance

cc: M. L. Maxwell and Associates, 1418 Bradley Ave., Cheyenne, WY 82001  
Gus Lopez, City-County Health Unit, 315 W. 20th Street, Cheyenne, WY 82001



PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-390RR

Pinedale Medical Center

(Name of Facility)

This permit hereby authorizes the applicant:

c/o Robert A. Harrower

(Last)

(First)

(Middle)

P. O. Box 67

(Street or P.O. Box)

Pinedale

(City)

Sublette

(County)

Wyoming 82941

(State)

to construct, install, or modify a Septic Tank - Leach Field  
facility located in Section 34, T34N, R109W  
(Legal Description)

in the County of Sublette, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Galas

Administrator  
Water Quality Division

Robert E. Lundin

Director  
Wyoming Dept. of Environmental Quality

April 5, 1978

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Hathaway Office Building  
Cheyenne, Wyoming 82002

PROJECT: Sublette County Memorial Hospital, SW $\frac{1}{4}$ , Section 34, T34N,  
R109W, Pinedale Wyoming - Sublette County

ARCHITECT OR ENGINEER: Rio Verde Engineering  
ATTN: Robert Harrower, P.E.  
P. O. Box 67 - Pinedale, Wyoming, 82941

WATER QUALITY DIVISION REFERENCE NUMBER: 77-390R

REVIEWING ENGINEER: David W. Hill - William L. Garland, P.E.

DATE OF REVIEW: February 14, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

*William L. Garland*

COMMENTS:

- 1). Please state the depth to the seasonal high groundwater in the leach field area.
- 2). Submit details of the proposed distribution boxes.

THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 18, 1977

Mr. Joseph R. Hicks  
P.O. Box 596  
Pinedale, Wyoming 82941

Dear Mr. Hicks:

RE: Sublette County Memorial Hospital  
Sewage Disposal System 77-390

We have received the plans and specifications for the above project.

Your facility does not qualify as a single family small wastewater facility under our "Chapter III Rules and Regulations." The plans will not be reviewed until they are signed or sealed by an engineer registered in the State of Wyoming.

If any question comes up, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script that reads "David W. Hill".

David W. Hill  
Environmental Engineer  
Water Quality Division

DWH/jo  
Enclosure

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-391M

Town of Pinedale - Sewer Improvements

(Name of Facility)

This permit hereby authorizes the applicant:

Town of Pinedale

(Last) (First) (Middle)  
c/o Rio Verde Engineering  
P.O. Box 67

(Street or P.O. Box)

Pinedale Sublette Wyoming 82941  
(City) (County) (State)

to construct, install, or modify a 24 inch Sewer line

facility located in the Town of Pinedale

(Legal Description)

in the County of Sublette, in the State of

Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. Garland  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HATHAWAY BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 28, 1977

Mr. Robert A. Harrower  
Rio Verde Engineering  
P.O. Box 67  
Pinedale, Wyoming 82941

Dear Mr. Harrower:

RE: Sewer Improvements, Pinedale, Wyoming  
77-391M

The final specifications and design drawings of the above referenced project have been received, in duplicate, by this Department.

Please be advised that a review has been made of these plans and specifications and the authorization to construct already approved in the past remains unchanged. The project is approved by this Department with the minor changes made on the submitted documents.

Yours truly,

*Frank R. Harman*  
Frank R. Harman, P.E.  
Environmental Engineer  
Water Quality Division

FRH/jo

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-392M

City of Lander, Water & Sewer Stream Crossing Relocation  
(Name of Facility)

This permit hereby authorizes the applicant:

City of Lander      Attention: C. E. Spurlock Jr., City Engineer  
(Last)                      (First)                      (Middle)  
183 South 4th Street  
(Street or P.O. Box)  
Lander                      Fremont                      Wyoming 82520  
(City)                      (County)                      (State)

to construct, install, or modify a Sanitary Sewer System  
facility located in the City of Lander  
(Legal Description)

in the County of Fremont, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William P. O'Leary  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

October 25, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-393M

Alpine Water District - Alpine Well #1 & Associated Improvements  
(Name of Facility)

This permit hereby authorizes the applicant:

Alpine Water District  
(Last) (First) (Middle)  
c/o Peter M. Jorgensen  
P.O. Box 1142  
(Street or P.O. Box)  
Jackson Wyoming 83001  
(City) (County) (State)

to construct, install, or modify a Alpine Water District Well #1 & Improvements  
facility located in Section 33, T37N, R118W  
(Legal Description)

in the County of Lincoln, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Garland  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

October 12, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Alpine Water District - Alpine Well #1 and Associated Improvements,  
Lincoln County, Wyoming

ARCHITECT OR ENGINEER: Peter M. Jorgensen, Consulting Engineer, P.O. Box 1142,  
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 77-393M

REVIEWING ENGINEER: Frank R. Harman, P.E. - William L. Garland, P.E.

DATE OF REVIEW: October 12, 1977

*William L. Garland*

ACTION: AUTHORIZED FOR CONSTRUCTION

COMMENTS:

For convenience of maintenance and access for repair the check valve flow meter and gate valve should be put in a single manhole adjacent to either the well or the main.



PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-394

Big Horn Coal Waste Treatment Facility No. 003

(Name of Facility)

This permit hereby authorizes the applicant:

Big Horn Coal Company

(Last)

(First)

(Middle)

P.O. Box 724

(Street or P.O. Box)

Sheridan

Sheridan

Wyoming 32801

(City)

(County)

(State)

to construct, install, or modify a Waste Treatment Facility

facility located in Section 15, T58N, R84W

(Legal Description)

in the County of Sheridan, in the State of

Wyoming. This permit shall be effective for a period of 2 years

from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. O'Leary  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

November 3, 1977

Date of Issuance

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

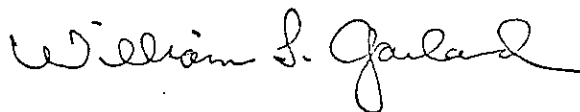
PROJECT: Big Horn Elementary School - Waste System

ARCHITECT OR ENGINEER: Johnson - Graham Association, 644 Grand Avenue,  
Billings, Montana 59101

WATER QUALITY DIVISION REFERENCE NUMBER: 77-395

REVIEWING ENGINEER: Roy E. Prior, William L. Garland, P.E.

DATE OF REVIEW: 10-21-77



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Drawings and specifications require the signature or seal of an engineer registered in the State of Wyoming.
2. Provide profile of the sewerline, septic tank and leach field.
3. Provide a cross section detail of the leach field.
4. Provide specifications for sewer pipe, backfill and distribution box.
5. The sewer pipe should be 6 inches in diameter.
6. Provide location of potable water wells and lines and streams in the area.
7. What is the depth to the groundwater?
8. This cannot be considered a final review.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Davis Addition, Water and Sewer Extensions, Riverton, WY, Fremont Co.

ARCHITECT OR ENGINEER: Elmo G. Peterson, P.E. - Wind River Engineers,  
P.O. Box 1369, Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 77-396

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E. *William L. Garland*

DATE OF REVIEW: October 19, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

- 1) Please have owner or owners designated representative fill out and submit two copies "Application for Permit to Construct, Install,....."
- 2) A letter is needed from the City of Riverton stating that the City will provide sewage treatment for the subdivision and provide water at adequate pressure.
- 3) We do not have a copy of the City of Riverton specifications in this office. Please provide us with a copy.
- 4) Complete design data for ultimate flows and population are needed.
- 5) The two temporary ends of lines cannot end in a plug. A temporary flushing hydrant or blow-off shall be used. The East 6 inch line should be looped if possible.
- 6) Will the 4 inch water line serve two houses or will it ultimately be connected to an existing or future water main? This line must be 6 inch or larger if it is to be looped.
- 7) The use of fire hydrants on a line supplied by a four inch line concerns us. One of the following is needed:
  - 1) Fire hydrant cannot be used unless all supply lines back to the water source are 6 inch or larger.
  - 2) Hydraulically justify that the four inch line can supply the hydrants with fire flow.

Davis Addition, Water and Sewer Extensions, Riverton, WY, Fremont Co.

77-396

- 8) Please indicate the size of sewer line that this subdivisions sewer flows into.
- 9) Six inch sewers are not allowable as main lines. Use 8 inch and a manhole at the intersection and a manhole or cleanout at the East end.
- 10) Detailed specifications are needed for the two water-sewerline crossovers.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

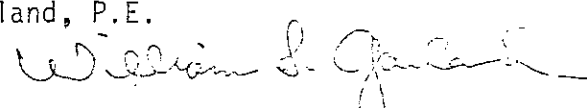
PROJECT: Davis Addition, Water and Sewer Extensions, Riverton, Wyoming,  
Fremont County

ARCHITECT OR ENGINEER: Elmo G. Peterson, P.E. - Wind River Engineers, P.O. Box 1369,  
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 77-396R

REVIEWING ENGINEER: David W. Hill, William L. Garland, P.E.

DATE OF REVIEW: November 3, 1977



ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

WATER LINES

- 1) A detailed drawing of the proposed blowoffs is needed.
- 2) Detailed drawings and/or specifications are needed for the fire hydrant (i.e. - valving, drain pits, thrust blocking, etc.)
- 3) Please submit sizes and concrete strengths of the proposed thrust blocks.
- 4) Pressure testing shall take place in accordance to AWWA C600. Pressure testing shall last no shorter than 1 hour.
- 5) Leakage testing shall last for a period no shorter than two hours.

WASTEWATER SYSTEM

- 6) Infiltration or exfiltration shall not exceed 200 gallons per inch of pipe diameter per mile per day. The specifications allow 250 gallons.
- 7) Leakage tests must be specified. This may include either low pressure air testing or water testing.
- 8) An alignment specification between manholes is needed.
- 9) Ductile iron pipe must meet applicable AWWA specifications. Please insert this in plans and specifications.
- 10) An eight inch line must be used if two or more residences are to be hooked into it. A manhole is needed at the intersection and a cleanout at the upper end, or individual four inch service lines for each residence may be used. Please change the plans to reflect the choice.

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-396RR

Davis Subdivision, Sewer & Water Lines  
(Name of Facility)

This permit hereby authorizes the applicant:

Davis Percy T  
(Last) (First) (Middle)

2203 West Main Street  
(Street or P.O. Box)

Riverton Fremont Wyoming  
(City) (County) (State)

to construct, install, or modify a Water and Sewer Line  
facility located in Section 33, T1N, R4E  
(Legal Description)

in the County of Fremont, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William S. Ireland  
Administrator  
Water Quality Division

Robert E. Sundin  
Director  
Wyoming Dept. of Environmental Quality

January 23, 1978

Date of Issuance

cc: Wind River Engineers, ATTN: Elmo Peterson, P.E., P. O. Box 1369, Riverton, Wyoming

82501

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-397

Wilson Septic Tank  
(Name of Facility)

This permit hereby authorizes the applicant:

<u>Wilson</u>	<u>Robert</u>	
(Last)	(First)	(Middle)
<u>c/o Husmans, Inc.</u>		
<u>P.O. Box 6127</u>		
(Street or P.O. Box)		

<u>Sheridan</u>	<u>Sheridan</u>	<u>Wyoming 82801</u>
(City)	(County)	(State)

to construct, install, or modify a Sewage Treatment  
facility located in Section 20, T55N, R83W  
(Legal Description)

in the County of Sheridan, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William J. O'Leary  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

December 13, 1977

Date of Issuance

PERMIT TO CONSTRUCT

☒ New  
☐ Renewal  
☐ Modified

Permit No. 77-398MRR

North Platte Water & Sewer District (Hilton Inn),  
Sewer, Lift Station Construction & Pump House Modification  
(Name of Facility)

This permit hereby authorizes the applicant:

North Platte Water & Sewer District  
(Last) (First) (Middle)  
P. O. Box 614  
(Street or P.O. Box)  
Casper Natrona Wyoming 82601  
(City) (County) (State)

to construct, install, or modify a Sewer, Lift Station & Water Pump House  
facility located in Section 4, T33N, R79W  
(Legal Description)

in the County of Natrona, in the State of  
Wyoming. This permit shall be effective for a period of 2 years  
from the date of issuance of this permit not to exceed five (5) years.

Authorized by:

William L. Galand  
Administrator  
Water Quality Division

Robert E. Lundin  
Director  
Wyoming Dept. of Environmental Quality

March 15, 1978

Date of Issuance

This permit does not supercede the requirements for obtaining a Septic Tank  
Permit from Natrona County Health Department.

cc: Howard, Needles, Tammen & Bergendoff, P. O. Box 3478, Casper, Wyoming 82601



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Hathaway Office Building  
Cheyenne, Wyoming 82002

PROJECT: North Platte Water & Sewer District (Hilton Inn), Sewer,  
Lift Station Construction and Pump House Modification

ARCHITECT OR ENGINEER: HNTB, Inc., ATTN: Gray Wangelin  
P. O. Box 3478, Intermountain Building, Casper, WY 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 77-398MR

REVIEWING ENGINEER: Dan H. Kim - Don Armstrong, P.E.

DATE OF REVIEW: February 4, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

GENERAL

- 1). Disinfection of water system shall be performed in accordance with AWWA Standards C601-68. The application of chlorine shall be at a rate of no less than 50 mg/l with a residual at the end of 24 hours of no less than 25 mg/l.
- 2). Please provide detail drawings of type of bedding to be used.
- 3). A letter of verification from the City should be provided, indicating that they are capable of handling added organic and/or hydraulic loads.

LIFT STATION

- 1). Is the top of the lift station above the highest known flood level?
- 2). What size of solids can the submersible pump handle? Unless the pumps are guaranteed not to clog they should be preceded by a rack accessible for maintenance from above.
- 3). Submersible pumps shall be capable of unsubmerged operation without damage or reduction of service capability or positive provisions shall be made to assure submergence, e.g. back up controls.
- 4). Emergency power supply or emergency overflow storage having a minimum of two hour detention capacity should be provided as directed in Chapter 30 of Ten State Standards for Sewage Works.
- 5). Ten State Standards (Addendum No. 5) require all control valves on the discharge line for each pump be placed in a convenient location outside the wet well.

PROJECT: North Platte Water & Sewer District (Hilton Inn), Sewer,  
Lift Station Construction and Pump House Modification

WATER QUALITY REFERENCE NUMBER: 77-398MR (CONT)

- 6). How much sewage flow is expected from the new Hilton Inn? Please provide design calculation for wet well (i.e. size, detention time, etc.).
- 7). Please specify the type of alarm to be used and show how it is connected.
- 8). This cannot be considered a final review.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Hilton Inn - Relocation of Sewerline, North Platte Water and Sewer District

ARCHITECT OR ENGINEER: Howard, Needles, Tammen and Bergendoff, P.O. Box 3478,  
Casper, Wyoming 82602

WATER QUALITY DIVISION REFERENCE NUMBER: 77-398M

REVIEWING ENGINEER: Dan H. Kim, William L. Garland, P.E.

DATE OF REVIEW: October 26, 1977

*William L. Garland*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

- COMMENTS:
- 1) Enclosed is an application for a permit to construct, which should be completed and returned to our office.
  - 2) Exfiltration maximum is 200 gallons per inch of diameter per mile per day for any section of the system. This requirement should be included in the specifications.
  - 3) Water and sewer line crossings are not per State Water Quality Chapter III Regulations.
  - 4) Should provide specifications concerning excessive sidefill pressures and ovalation of the pipe. The maximum deflection allowed shall not exceed 5% of the pipes internal diameter.
  - 5) Backfilling specifications should indicate that backfill material shall be free from rocks, hard clods and frozen material.
  - 6) This cannot be considered a final review.


REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Hathaway Office Building  
Cheyenne, Wyoming 82002

PROJECT: Town of South Superior, Proposed Development in Blocks 6 & 9,  
2nd Addition - Sweetwater County

ARCHITECT OR ENGINEER: David P. Miller, P.E., P. O. Box 422,  
Rock Springs, Wyoming 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 77-399MR

REVIEWING ENGINEER: Frank R. Harman, P.E. *Frank R. Harman* 

DATE OF REVIEW: March 7, 1978

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

MANHOLE

- 1). Provide a detailed drawing of a typical manhole proposed to be used in the project.

TREATMENT ADEQUACY

- 2). Provide a letter from the Town of South Superior stating that when the projected sewage project, which is being planned by the Town is completed, it will be capable of taking and treating this development's sewage in addition to the Town's sewage.

WATER AND SEWER CROSSINGS

- 3). Where water lines and sewer lines cross, they shall do so in accordance with the requirements of the Ten State Standards (copy attached). Indicate statement of compliance.

## 29.2 Relation to Water Works Structures

While no general statement can be made to cover all conditions, it is generally recognized that sewers shall meet the requirements of the approving agency with respect to minimum distances from public water supply wells or other water supply sources and structures.

## 29.3 Relation to Water Mains

### 29.31 Horizontal Separation

Whenever possible, sewers should be laid at least 10 feet, horizontally, from any existing or proposed water main. Should local conditions prevent a lateral separation of 10 feet, a sewer may be laid closer than 10 feet to a water main if:

- a. It is laid in a separate trench.
- b. It is laid in the same trench with the water mains located at one side on a bench of undisturbed earth.
- c. In either case the elevation of the crown of the sewer is at least 18 inches below the invert of the water main.

### 29.32 Vertical Separation

Whenever sewers must cross under water mains, the sewer shall be laid at such an elevation that the top of the sewer is at least 18 inches below the bottom of the water main. When the elevation of the sewer cannot be buried to meet the above requirement, the water main shall be relocated to provide this separation or reconstructed with slip-on or mechanical-joint cast-iron pipe, asbestos-cement pressure pipe or prestressed concrete cylinder pipe for a distance of 10 feet on each side of the sewer. One full length of water main should be centered over the sewer so that both joints will be as far from the sewer as possible.

### 29.33 Special Conditions

When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the water main should be constructed of slip-on or mechanical-joint cast-iron pipe, asbestos-cement pressure pipe or prestressed concrete cylinder pipe and the sewer constructed of mechanical-joint cast-iron pipe and both services should be pressure tested to assure water-tightness.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
State Office Building  
Cheyenne, Wyoming 82002

PROJECT: Town of South Superior, Proposed Sewer Line and Lagoon in Blocks  
6 & 7 - 2nd Addition, South Superior, WY

ARCHITECT OR ENGINEER: David P. Miller - P.O. Box 422, Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 77-399M

REVIEWING ENGINEER: Frank R. Harman, P.E. - William L. Garland, P.E.

DATE OF REVIEW: October 12, 1977

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

*William L. Garland*

COMMENTS:

- 1) Provide a detailed drawing of the outlet manhole structure from the lagoon.
- 2) Side slopes of the dikes shall be 3 horizontal to 1 vertical.

FRH/jo

cc: Thomas W. Bergman, 3025 Morgan Valley Drive, Morgan, Utah 84050